

What is claimed is:

1. A plasma display panel comprising:

a first substrate forming a display surface;

5 a second substrate placed to face said first substrate at a given distance; and

barrier ribs sectioning a space between said first substrate and said second substrate into a plurality of independent cell spaces;

wherein said plurality of cell spaces comprise a plurality of discharge cells and a plurality of non-discharge cells, and

10 said plurality of discharge cells and said plurality of non-discharge cells are arranged so that each said discharge cell adjoins at least one said non-discharge cell.

2. The plasma display panel according to claim 1, wherein a phosphor is applied in said discharge cells and no phosphor is applied in said non-discharge cells.

15 3. The plasma display panel according to claim 1, further comprising black insulating films provided on said second substrate in regions corresponding to said non-discharge cells.

20 4. The plasma display panel according to claim 1, further comprising, first reflection films provided on sides of said barrier ribs in regions corresponding to said non-discharge cells, and

black insulating patterns provided on said first substrate in the regions corresponding to said non-discharge cells.

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5. The plasma display panel according to claim 4, wherein said first reflection films are provided also on said second substrate in the regions corresponding to said non-discharge cells.

5 6. The plasma display panel according to claim 4, wherein said black insulating patterns on said first substrate are partially provided also in regions facing said barrier ribs.

10 7. The plasma display panel according to claim 4, wherein said first reflection films are formed of a phosphor.

8. The plasma display panel according to claim 4, further comprising second reflection films provided on said black insulating patterns.

15 9. The plasma display panel according to claim 8, wherein said second reflection films are formed of a phosphor.

20 10. The plasma display panel according to claim 1, further comprising:
reflection films provided on sides of said barrier ribs in regions corresponding
to said non-discharge cells; and

black insulating films provided on said reflection films and on said second substrate in the regions corresponding to said non-discharge cells.

25 11. The plasma display panel according to claim 10, wherein said reflection films are formed of a phosphor.

12. The plasma display panel according to claim 1, further comprising,
reflection films provided on sides of said barrier ribs in regions corresponding
to said non-discharge cells and on said second substrate in the regions corresponding to
5 said non-discharge cells, and

black insulating films provided on said reflection films.

13. The plasma display panel according to claim 12, wherein said reflection
films are formed of a phosphor.

14. The plasma display panel according to claim 1, further comprising sustain
electrodes comprising first electrodes and second electrodes provided on said first
substrate,

wherein said first electrodes on said first substrate are arranged over said barrier
15 ribs along a plurality of said discharge cells, and

said second electrodes on said first substrate are arranged to protrude from said
first electrodes only over said discharge cells.

15. The plasma display panel according to claim 14, wherein said first
20 electrodes are arranged over said barrier ribs while being shifted toward said
non-discharge cells.

16. The plasma display panel according to claim 1, wherein said barrier ribs
comprise cuts formed in parts which face said first substrate, said cuts connecting
25 adjacent said cell spaces.

17. The plasma display panel according to claim 1, wherein said first substrate comprises indentations formed in regions facing said barrier ribs, said indentations connecting adjacent said cell spaces.

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18. The plasma display panel according to claim 1,
wherein said discharge cells and said non-discharge cells are arranged in a matrix, and

10 said discharge cells and said non-discharge cells are alternated horizontally and vertically.

19. The plasma display panel according to claim 1, wherein said discharge cells occupy a larger area in said display surface than said non-discharge cells.

15 20. A plasma display device comprising a plasma display panel,
said plasma display panel comprising:
a first substrate forming a display surface;
a second substrate placed to face said first substrate at a given distance; and
barrier ribs sectioning a space between said first substrate and said second
20 substrate into a plurality of independent cell spaces,

wherein said plurality of cell spaces comprise a plurality of discharge cells and a plurality of non-discharge cells, and

said plurality of discharge cells and said plurality of non-discharge cells are arranged so that each said discharge cell adjoins at least one said non-discharge cell.

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